WOODSTOCK

SHOP FOX®

INTERNATIONAL

MODEL W1717
Horizontal/Vertical Sander

INSTRUCTION MANUAL

Phone: 1-360-734-3482 • On-Line Technical Support: tech-support@shopfox.biz

Printed in China

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such those dust masks that are specially designed to filter out microscopic particles.

CONTENTS

INTRODUCTION

About Your New Sander

Your new **SHOP FOX®** Model W1717 Horizontal/Vertical Sander is specially designed to provide many years of trouble-free service. Close attention to engineering detail, ruggedly built parts, and a rigid quality control program assure safe and reliable operation.

The Model W1717 features a 1/3 HP, 110V motor which is capable of 2100 SFPM speeds. The Model W1717 also features a quick change belt design and a tilting platen system.

For more features and details, refer to the **Specifications** sub-section in this manual.

Woodstock International, Inc. is committed to customer satisfaction in providing this manual. It is our intent to include all the information necessary for safety, ease of assembly, practical use and durability of this product.

If you need the latest edition of this manual, you can download it from **http://www.shopfox.biz**.
If you still have questions after reading the latest manual, or if you have comments please contact us at:

Woodstock International, Inc.
Attn: Technical Support Department
P.O. Box 2309
Bellingham, WA 98227

Woodstock Service and Support

We stand behind our machines! In the event that a defect is found, parts are missing or questions arise about your machine, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz. Our knowledgeable staff will help you troubleshoot problems, order parts or arrange warranty returns.

Warranty and Returns

Woodstock International, Inc. warrants all **SHOP FOX®** machinery to be free of defects from workmanship and materials for a period of 2 years from the date of original purchase by the original owner. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, lack of maintenance, or to repairs or alterations made or specifically authorized by anyone other than Woodstock International, Inc.

Woodstock International, Inc. will repair or replace, at its expense and at its option, the **SHOP FOX®** machine or machine part which in normal use has proven to be defective, provided that the original owner returns the product prepaid to the **SHOP FOX®** factory service center or authorized repair facility designated by our Bellingham, WA office, with proof of their purchase of the product within 2 years, and provides Woodstock International, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Woodstock International Inc.'s warranty, then the original owner must bear the cost of storing and returning the product.

This is Woodstock International, Inc.'s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that **SHOP FOX®** machinery complies with the provisions of any law or acts. In no event shall Woodstock International, Inc.'s liability under this warranty exceed the purchase price paid for the product, and any legal actions brought against Woodstock International, Inc. shall be tried in the State of Washington, County of Whatcom. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

Every effort has been made to ensure that all **SHOP FOX®** machinery meets high quality and durability standards. We reserve the right to change specifications at any time because of our commitment to continuously improve the quality of our products.

Specifications

Motor Size	1/3 HP, 110V
Amperage	4 A
Motor Speed	3450 RPM
Sanding Belt Size	4" x 36"
Sanding Belt Speed	2100 SFPM
Machine Weight	56 lbs
Footprint	24" x 18"

SAFETY

READ MANUAL BEFORE OPERATING MACHINE. FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL RESULT IN PERSONAL INJURY.

⚠DANGER Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠WARNING Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠CAUTION Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury, MAY result in property damage.

NOTICE This symbol is used to alert the user to useful information about proper operation of the equipment.

Standard Safety Instructions

1. **Thoroughly read the instruction manual before operating your machine.** Learn the applications, limitations and potential hazards of this machine. Keep manual in a safe, convenient place for future reference.

2. **Keep work area clean and well lit.** Clutter and inadequate lighting invite potential hazards.

3. **Ground all tools.** If a machine is equipped with a three-prong plug, it must be plugged into a three-hole grounded electrical receptacle or grounded extension cord. If you are using an adapter to aid in accommodating a two-hole receptacle, screw adapter to a known ground.

4. **Wear eye protection at all times.** Use safety glasses with side shields or safety goggles that meet the appropriate standards of the American National Standards Institute (ANSI).

5. **Avoid dangerous environments. DO NOT** operate this machine in wet or open flame environments. Airborne dust particles could cause an explosion and severe fire hazard.

6. **Ensure all guards are securely in place** and in working condition.

7. **Make sure the machine power switch is in the *OFF* position** before connecting power to machine.

8. **Keep the work area clean,** free of clutter, grease, etc.

9. **Keep children and visitors away.** Visitors should be kept at a safe distance while operating unit.

10. **Childproof your workshop** with padlocks, master switches or by removing starter keys.

11. **Stop and disconnect the machine when cleaning, adjusting or servicing.**

12. **DO NOT force tool.** The machine will do a safer and better job at the rate for which it was designed.

13. **Use correct tool. DO NOT** force machine or attachment to do a job for which it was not designed.

14. **Wear proper apparel. DO NOT** wear loose clothing, neck ties, gloves, jewelry, and secure long hair away from moving parts.

15. **Remove adjusting keys, rags, and tools.** Before turning the machine on, make it a habit to check that all adjusting keys and wrenches have been removed.

16. **Avoid using an extension cord.** But if you must, examine the extension cord to ensure it is in good condition. Use **TABLE 1** below to determine the correct length and gauge of extension cord needed for your particular needs. The amp rating of the motor can be found on its nameplate. If the motor is dual voltage, be sure to use the amp rating for the voltage you will be using. If you use an extension cord with an undersized gauge or one that is too long, excessive heat will be generated within the circuit, increasing the chance of a fire or damage to the circuit. Always use an extension cord that uses a ground pin and connected ground wire. Immediately replace a damaged extension cord.

17. **Keep proper footing and balance** at all times and lock mobile base from rolling freely before using your machine.

18. **DO NOT leave machine unattended.** Wait until it comes to a complete stop before leaving the area.

19. **Perform machine maintenance and care.** Follow lubrication and accessory attachment instructions in the manual.

20. **Keep machine away from open flame.** Operating machines near pilot lights or open flames creates a high risk if dust is dispersed in the area. Dust particles and an ignition source may cause an explosion. **DO NOT** operate the machine in high-risk areas, including but not limited to, those mentioned above.

21. **If at any time you are experiencing** difficulties performing the intended operation, stop using the machine! Contact our service department or ask a qualified expert how the operation should be performed.

22. **Habits are hard to break.** Develop good habits in your shop and consistent safety practices will become second-nature to you.

TABLE 1.

Extension Cord Requirements

	Length And Gauge		
Amp Rating	25ft	50ft	100ft
0-6	#16	#16	#16
7-10	#16	#16	#14
11-12	#16	#16	#14
13-16	#14	#12	#12
17-20	#12	#12	#10
21-30	#10	#10	No

⚠WARNING

Operating this equipment creates the potential for flying debris to cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

Know Your Machine

An important part of safety is knowing your machine and its components. Please take the time to learn the items shown below in **Figure 1**. The letters in the picture correspond to the following descriptions in the list.

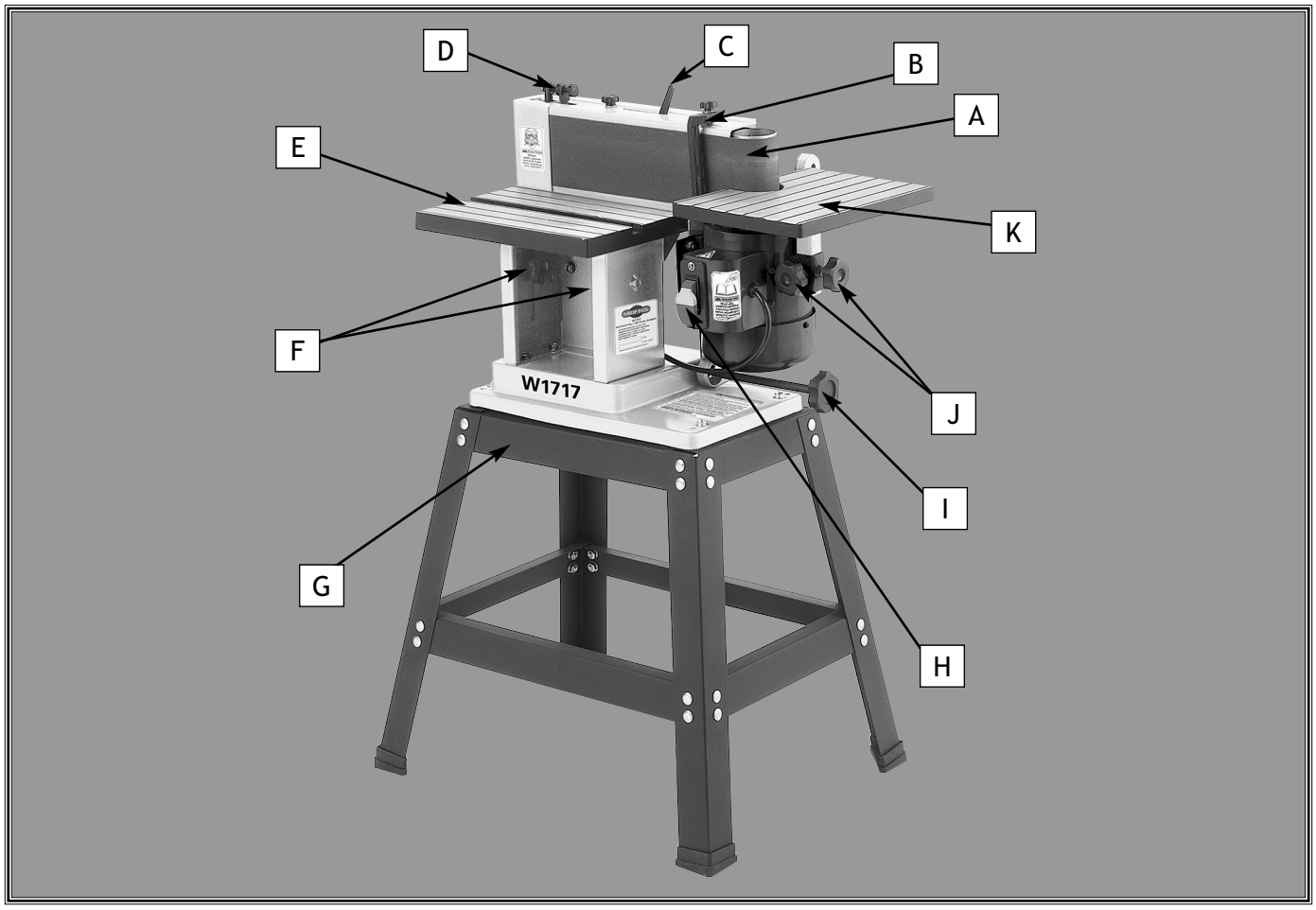


Figure 1. Machine Features

A. Sanding Belt
B. Work Stop Bar
C. Belt Tension Lever
D. Belt Tracking Adjustment System
E. Edge Sanding Table
F. Table Height Adjustment Knobs
G. Sander Stand
H. Paddle Switch with Safety Key
I. Table Tilting Knob
J. Table Height Adjustment Knobs
K. Contour Sanding Table

Safety Instructions for Your Sander

⚠WARNING

READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!

⚠CAUTION

USE this and other machinery with caution and respect, and always consider safety first, as it applies to your individual working conditions. Remember, no list of safety guidelines can be complete, and every shop environment is different. Failure to follow guidelines can result in serious personal injury, damage to equipment and/or poor work results.

- **ALWAYS** keep bystanders and yourself away when a workpiece is fed into the sander.
- **ALWAYS** secure aprons, clothing, and long hair away from all sander moving parts.
- **ALWAYS** use a respirator along with a dust collection system when sanding. Dust from some wood is toxic, so make sure you research the dangers of the specific species of wood you will sand.
- **ALWAYS** keep your hands away from the sanding belt during operation, and wear eye and hearing protection.
- **ALWAYS** adjust the conveyor feed rate and sanding drum height, so when you feed the workpiece into the sander using light pressure, you do not overload the sander. Never force the workpiece into the sander.
- **ALWAYS** shut the sander down, let the belt come to a complete stop, and disconnect power or engage applicable safety-lock devices before you service, adjust, troubleshoot, or leave the machine unattended.
- **ALWAYS** keep this machine in correct adjustment and properly serviced. Never attempt to clear a jammed workpiece while the sander is running.
- **ALWAYS** replace the sandpaper when it is worn, and only use undamaged sandpaper.
- **ALWAYS** inspect the workpiece for nails, staples, knots, imbedded stones, and other material that could be dislodged and thrown from the machine during sanding operations.
- **NEVER** sand if there is any doubt about the stability or integrity of the workpiece.
- **NEVER** sand more than one workpiece at a time.
- **NEVER** sand tapered or pointed stock with the point facing the feed direction.
- **NEVER** leave the machine running unattended.
- **NEVER** operate the sander without an adequate dust collection system in place and running.

110V Operation

The **SHOP FOX®** Model W1717 1/3 HP, 110 volt motor draws approximately 4 amps.

Since other machines may be using the same circuit, make sure the circuit, circuit breaker, or fuse can carry the total load without tripping. If the total amperage load of all machines and the sander exceeds the amperage rating of the circuit breaker or fuse, use a different circuit that can carry the load.

DO NOT modify an existing low-amperage circuit by only replacing the circuit breaker with a breaker rated for a higher amperage. The breaker and the complete circuit must be replaced by a qualified electrician, otherwise the wires can overheat and cause a fire.

Extension Cords

If you must use an extension cord with the Model W1717, please follow these requirements:

- **Use a cord rated for Standard Service (Grade S).**
- **Use a cord that is 100 feet or less.**
- **Use a least a 16 gauge cord.**
- **Use a cord with a ground pin.**
- **Use an undamaged cord only.**

Grounding

⚠WARNING

Serious injury or fire may occur if you plug this machine into a receptacle that is not grounded. Connect this machine to grounded outlets only!

Ground this machine! The electrical cord supplied with the **SHOP FOX®** Model W1717 sander has a three prong plug for grounded outlets. See **Figure 2.** If your power receptacle does not have a ground pin hole, have the receptacle replaced by a qualified electrician, or have an appropriate adapter installed and grounded properly. NEVER cut the ground pin off so your sander plug fits into a non-grounded receptacle.

NOTICE

When using an electrical plug adapter, make sure the adapter is grounded.

Remember, an adapter with a grounding wire does not guarantee the sander is grounded. A ground source must always be verified in the electrical circuit within the wall or conduit.

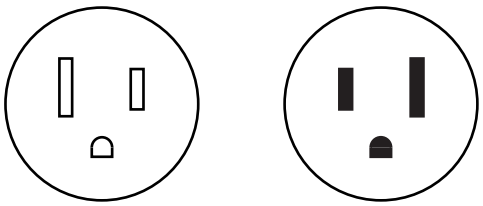


Figure 2. NEMA-style 5-15 plug and receptacle.

ASSEMBLY

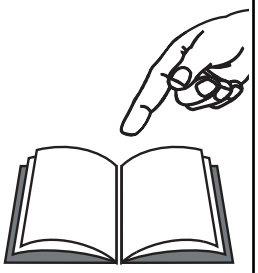
Unpacking

The Model W1717 was carefully packed when it left our warehouse. If you receive it damaged or missing any parts, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to:tech-support@shopfox.biz.

Inventory

Layout and inventory the package contents listed below and familiarize yourself with the components to ease assembly.

Item	Qty.
1. Sander Unit	1
2. Work Stand	
• Legs	4
• Short Upper Braces	2
• Long Upper Braces	2
• Long Lower Braces	2
• Short Lower Braces	2
• Rubber Feet	4
3. Contour Table	1
4. Table Post	1
5. Height Knob	2
6. Hardware Bag	
• M8-1.25 x 12 Carriage Bolt	32
• M8-1.25 x 40 Hex Bolt	4
• M5-.8 x 10 Philip Head Screw	3
• 8mm Hex Nut	36
• 8mm Flat Washer	40
• 5mm Flat Washer	3

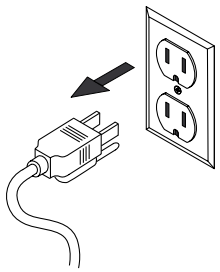


⚠WARNING

Read and understand this entire instruction manual before performing any operations with your machine. Serious personal injury may occur if safety and operational information is not understood and followed.

⚠CAUTION

The Model W1717 is a heavy machine at 56 lbs. Use assistance when lifting or moving the machine.



⚠WARNING

UNPLUG power cord before you do any assembly or adjustment tasks! Otherwise, serious personal injury to you or others may occur!

Shop Preparation

⚠CAUTION

ONLY ALLOW TRAINED PEOPLE in your shop! Make sure shop entrances are locked and machines are correctly turned off with lock-out devices when not in use. Otherwise, injury or death can occur.

- **Lighting:** Lighting should be bright enough to eliminate shadows and prevent eye strain.
- **Working Clearances:** Consider your current and future shop needs with respect to the safe operation of this machine.
- **Outlets:** Make sure the electrical circuits have the capacity to handle the amperage requirements for your Model W1717. Refer to **page 8** for more information. Electrical outlets should be located near the sander, so power or extension cords are clear of high-traffic areas.

Dust Collection

⚠CAUTION

Some wood dust may cause allergic reactions or respiratory illness. Use a dust collection system and respirator in your shop to help protect yourself from these long-term hazards.

For information on the correct dust collection components for sanders, contact your Woodstock International dealer for a copy of the Dust Collection Basics handbook and available accessories.

Initial Cleaning

The exposed and unpainted sander surfaces are coated with a waxy oil to prevent rust during storage and shipment. DO NOT use chlorine based solutions or solvents to remove this waxy oil or you will damage the painted surfaces. Remove the waxy oil with a solvent based degreaser before you use the sander. Always follow all usage and safety instructions of the product that you are using.

⚠WARNING

DO NOT use flammables such as gas or other petroleum-based solvents to clean your machine. These products have low flash points and present the risk of explosion and severe personal injury!

⚠WARNING

DO NOT smoke while using cleaning solvents. Smoking may cause explosion or risk of fire when exposed to these products!

⚠CAUTION

ALWAYS work in a well ventilated area when using solvents with fumes, and keep away from any potential ignition sources (pilot lights). Most solvents used to clean machinery are toxic when inhaled or ingested. Always dispose of waste rags in a sealed container to make sure they do not cause fire or environmental hazards.

Stand Assembly

The Model W1717 Sander mounts onto a heavy duty metal work stand. This assembly will be fastened together using the supplied M8-1.25 x 12 carriage bolts, 8mm washers and 8mm hex nuts. Finger tighten the hardware at this time.

To assemble the work stand, do these steps:

1. Assemble two legs together with a lower short brace and an upper short brace as shown in **Figure 3**.

2. Install the long upper and lower braces to the assembled legs as shown in **Figure 4**.

3. Attach the remaining legs and short upper an lower braces as shown in **Figure 5**.

4. Slide the rubber feet onto the bottom of each leg to complete the stand assembly.

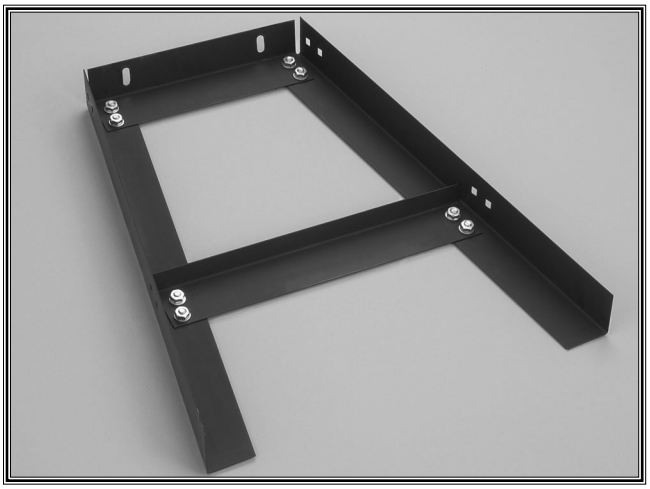


Figure 3. Assembled Legs.

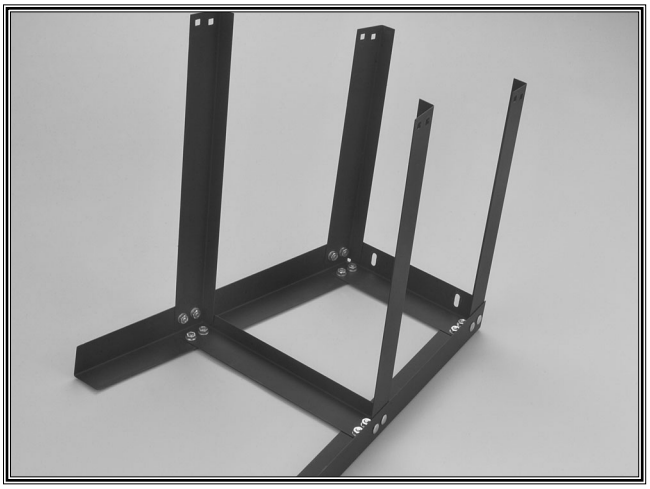


Figure 4. Installed braces.

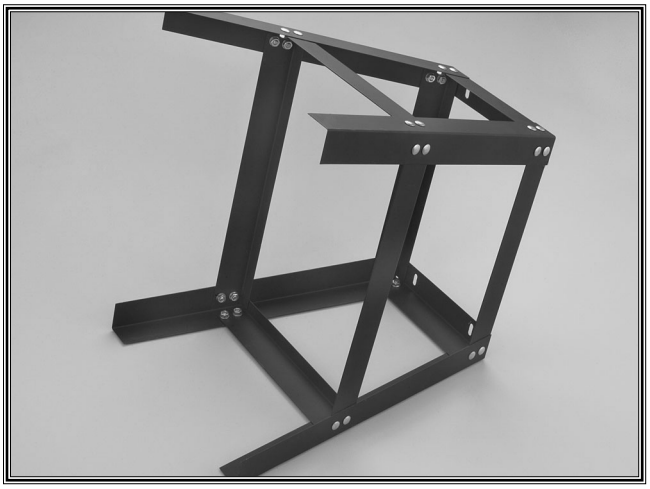


Figure 5. Remaining legs and braces installed..

Mounting Sander

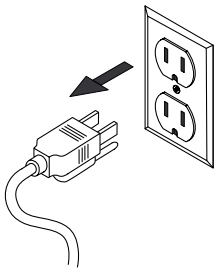
Mounting the sander to the stand will require the help of an assistant. Secure the sander to the stand using the supplied M8-1.25 x 40 hex bolts, 8mm washers and 8mm flat washers.

⚠CAUTION

The Model W1717 is a heavy machine at 56 lbs. Use assistance when lifting or moving the machine.

To mount the sander, do these steps:

1. **KEEP SANDER UNPLUGGED!**
2. Position the sander on the stand.
3. Align the holes in the sander with the holes pre-drilled in the stand.
4. Secure the sander to the stand as shown in **Figure 6**.
5. Tighten down all the carriage bolts in the stand.



⚠WARNING

UNPLUG sander before you do any assembly! Otherwise, serious personal injury to you or others may occur!

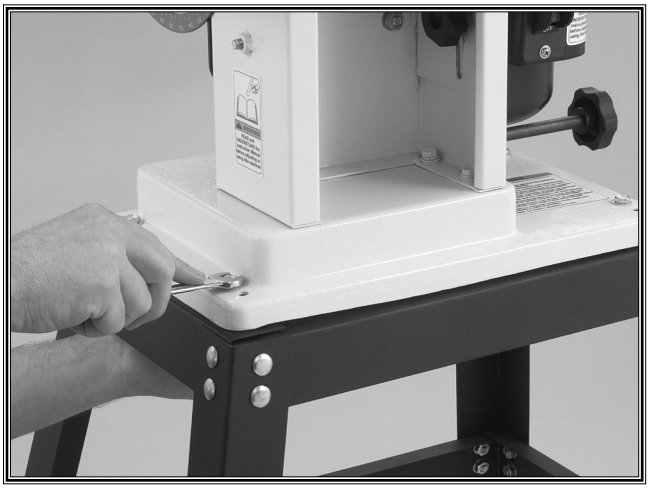
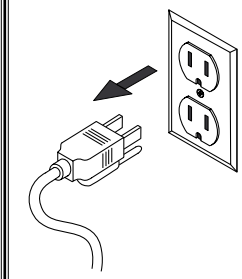


Figure 6. Mounting the sander.

ADJUSTMENTS



⚠WARNING

UNPLUG the power cord when making any adjustments on this machine! Otherwise, serious personal injury to you or others may occur!

Belt Tracking

The belt tracking must be adjusted correctly to make the belt ride parallel with the table.

To adjust the belt tracking, do these steps:

1. **UNPLUG THE SANDER!**

2. Make sure all guards are in place and the belt locking lever is in the locked position as shown in **Figure 7**.

3. Loosen the knurled adjustment nut away from the roller pin, shown in **Figure 8**.

4. Check the current belt position and note if it needs to go up or down. **Figure 9** shows a properly tracked belt with $^{1}/_{16}$" of roller exposed on the top and bottom.

5. Adjust the tension bolt clockwise to make the belt ride up, and adjust counter-clockwise to make the belt ride down.

6. Plug in the sander.

7. Start the sander and observe the corrected belt tracking.

8. Stop the sander and repeat **steps 1-7** until the desired tracking has been met.

9. Finger tighten the adjustment nut against the roller pin when the belt is riding correctly around the rollers.

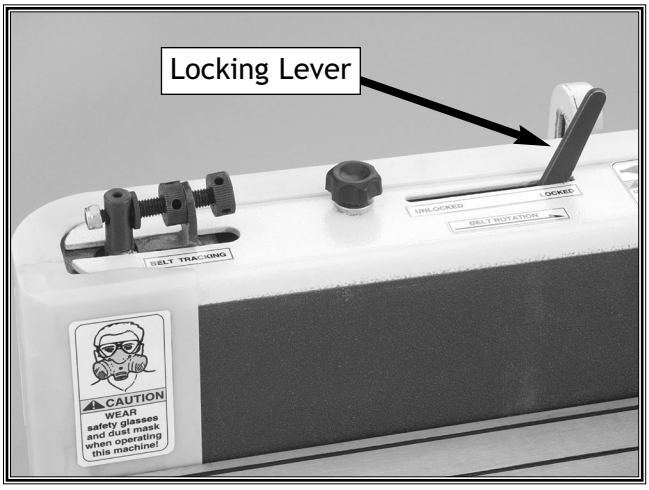


Figure 7. Belt locking lever.

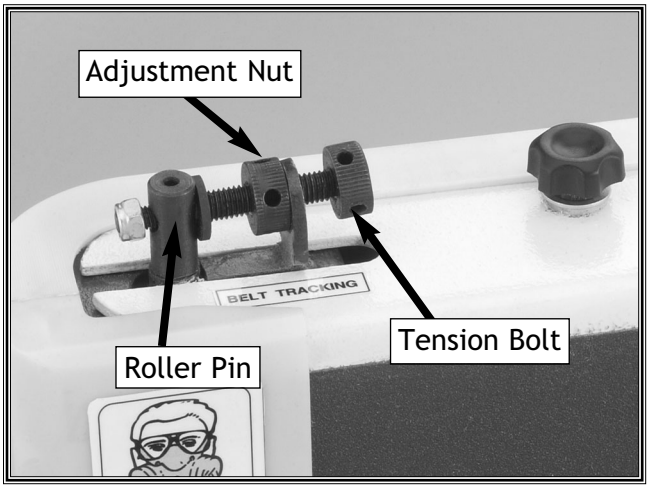


Figure 8. Tracking adjustment system.

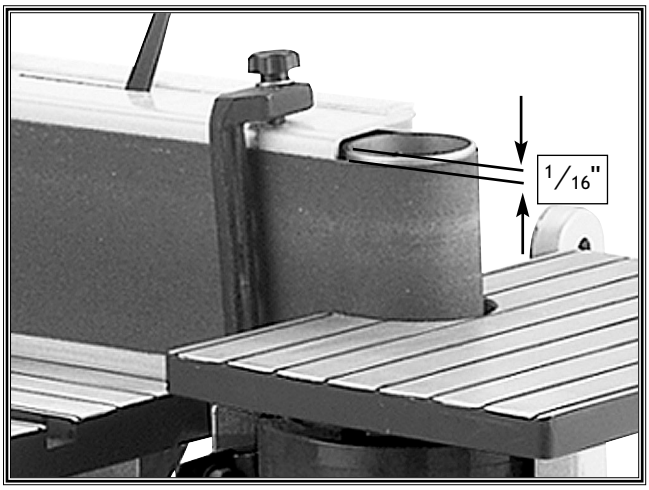


Figure 9. Proper belt tracking.

Scale Pointer

The scale pointer on the sander indicates the tilt angle of the sanding belt relative to the edge sanding table. It has been set at the factory but throughout the life of your machine, you may need to make adjustments.

To adjust the scale pointer, do these steps:

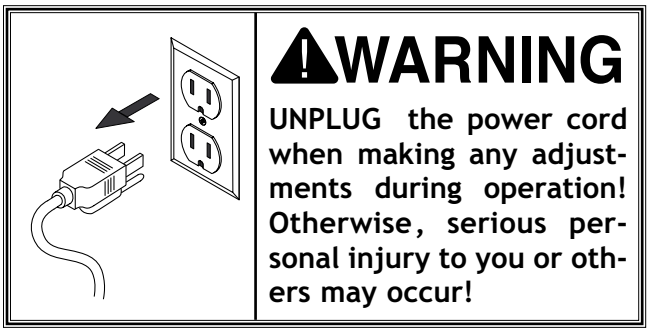
1. **UNPLUG THE SANDER!**

2. Loosen the belt tilting lock knob shown in **FIgure 10** and rotate the sanding belt so it is perpendicular with the edge sanding table.

3. Place a machinist square on the edge sanding table and against the sanding belt to check for squareness.

4. Lock the belt tilting knob when the belt is perpendicular to the table.

5. Adjust the scale pointer so it indicates 90˚ (**Figure 11**).



⚠WARNING

UNPLUG the power cord when making any adjustments during operation! Otherwise, serious personal injury to you or others may occur!

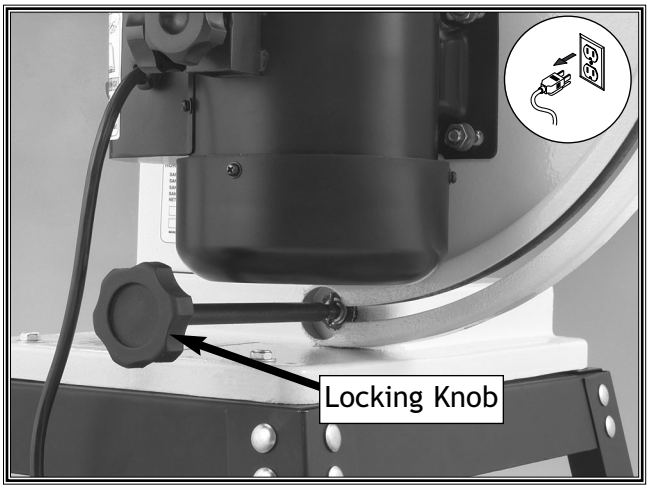


Figure 10. Belt tilt locking knob.

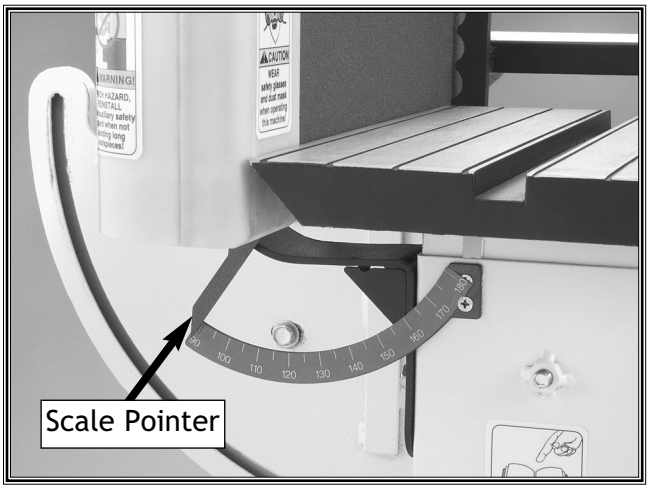


Figure 11. Scale pointer at 90˚.

Roller Adjustment

The motor mounting plate can be adjusted to correctly position the main roller in relation to the platen.

To adjust the main roller position, do these steps:

1. **UNPLUG THE SANDER!**

2. Loosen the four motor mounting bolts (**Figure 12**).

3. Remove the sanding belt.

4. Place a straightedge against the platen and check the roller clearance along the top and bottom. The roller should be 1/8" behind the platen. **Figure 13** shows a top view of the proper clearance.

5. Tighten the motor mounting bolts when the proper clearance has been achieved.

Figure 12. Motor mounting bolts (only 2 shown).

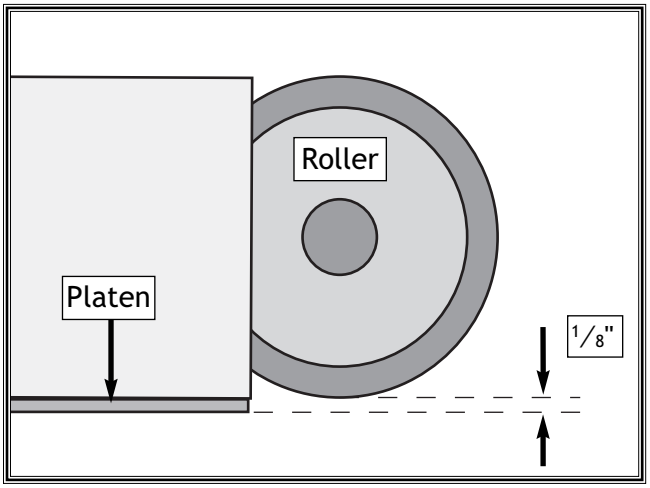


Figure 13. Proper platen to roller alignment.

OPERATIONS

Test Run

The purpose of a test run is to identify any unusual noises and vibrations, as well as to confirm that the machine is performing as intended.

To test run the Model W1717, do these steps:

1. Make sure all guards are in place and the belt is tracked and tensioned properly.

2. Make sure that the ON/OFF switch is in the "OFF" position before connecting the machine to power.

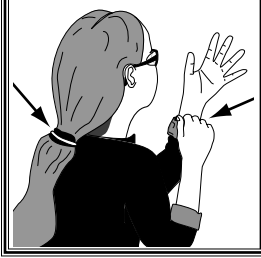
3. Pull the power switch up to start the sander. Once the sander is running, listen for any unusual noises. The machine should run smoothly with little or no vibrations.

   - If there are any unusual noises or vibrations, STOP the sander immediately by pushing the paddle switch down.

4. Unplug the sander and investigate the source of the noise or vibration. DO NOT make any adjustments to the sander while it is plugged in. The sander should not be run any further until the problems are corrected.

⚠WARNING

THIS MACHINE creates sawdust. Always wear safety glasses or a face shield during all sanding operations.



⚠WARNING

KEEP loose clothing rolled up and out of the way of machinery and keep hair pulled back.

⚠CAUTION

This machine produces sawdust that may cause allergic reactions or respiratory problems. Wear a respirator in addition to using a dust collector.

Power Switch

The power switch on the **SHOP FOX®** Model W1717 not only starts and stops operation, but features a safety lockout key. When the key is removed, as shown in **Figure 14**, the sander is disabled to prevent accidental start up.

Figure 14. Safety lockout key removed.

Belt Selection

The **SHOP FOX®** Model W1717 accepts 4" x 36" sanding belts. There are a large variety of sanding belts to choose from. We recommend Aluminum Oxide belts for standard sanding purposes. **Table 2** shows abrasive types and grit numbers.

As a general rule of thumb, progressively increase the grit number you use without jumping 50 grit sizes at one time. It would take a lot of sanding with a 220 grit paper to remove the sanding scratches left from an 80 grit paper.

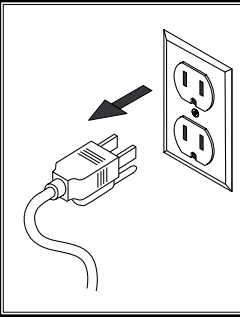
Table 2.

Type	Grit
Coarse	60
Medium	80-100
Fine	120-180
Very Fine	220

Edge and End Sanding

Edge and end sanding operations should be performed on the edge sanding table. These operations are designed to sand flat edges, smooth sharp corners and remove stock.

To start an edge or end sanding operations, do these steps:



⚠WARNING

UNPLUG the power cord when making any adjustments during operation! Otherwise, serious personal injury to you or others may occur!

1. **UNPLUG THE SANDER!**

2. Loosen the adjustment knobs in **Figure 15** to adjust the edge sanding table height to the desired position.

3. Lock the height adjustment knobs to secure the table.

4. Plug the sander into the power supply.

5. Start the sander.

6. Hold the workpiece firmly against the flat edge as shown in **Figure 16**. Note— *The work stop bar prevents the workpiece from running off the table.*

7. For end sanding, firmly hold the workpiece against the table as shown in **Figure 17**.

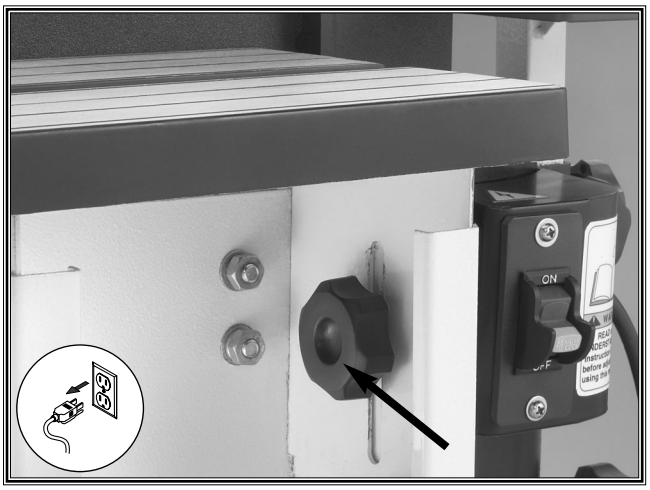


Figure 15. Height adjustment knob (1 of 2).

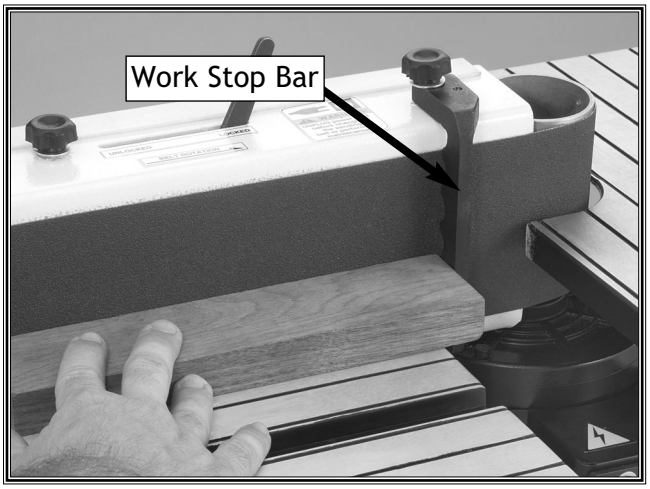


Figure 16. Edge sanding operation.

Figure 17. End sanding operation.

Contour Sanding

Curves and profile sanding operations can be sanded on the contour table.

To start a contour sanding operations, do these steps:

1. **UNPLUG THE SANDER!**

2. Loosen the lock knobs in **Figure 18** to adjust the contour table height to the desired position. Note— *Keep enough of the table post in the bracket so the adjustment knobs can make contact*.

3. Tighten the lock knobs to secure the table.

4. Plug the sander into the power supply.

5. Start the sander.

6. Hold the workpiece firmly with both hands and feed it into the curved end as shown in **Figure 19**. Move the workpiece around the end until the desired profile is achieved.

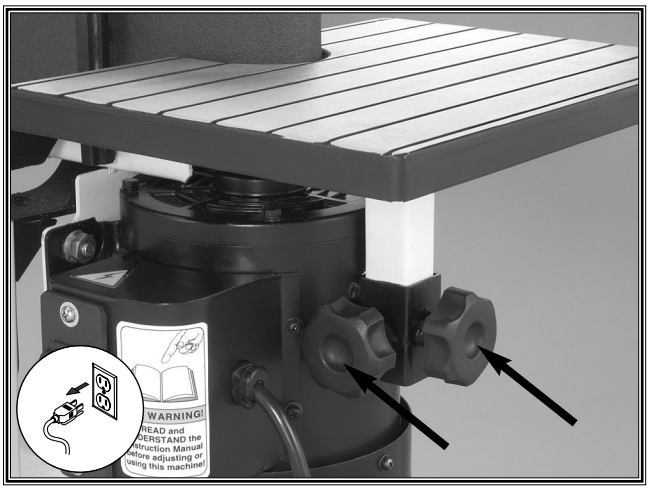


Figure 18. Height adjustment knobs.

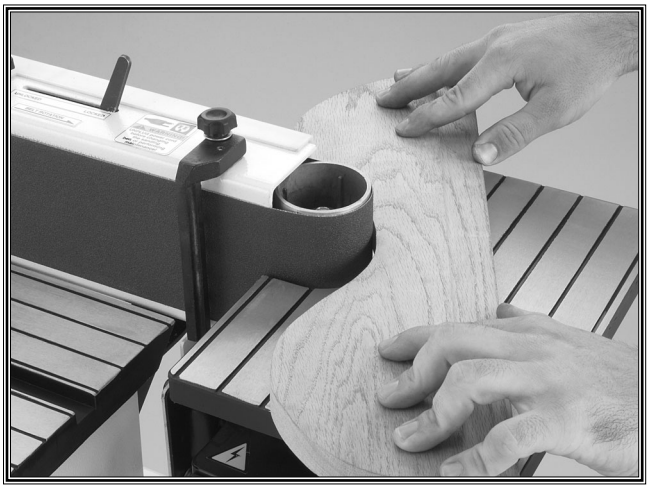


Figure 19. Contour sanding operation.

Flat Sanding

Flat sanding operations can be performed with the sanding belt tilted to 180˚.

To start flat sanding operations, do these steps:

1. **UNPLUG THE SANDER!**
2. Loosen the belt tilting lock knob shown in and rotate the sanding belt to the 180˚ mark on the scale (**FIgure 20**).
3. Tighten the lock knob.
4. Make sure the work stop is installed to prevent the workpiece from running off the sanding belt.
5. Plug the sander into the power supply.
6. Start the sander.
7. Hold the workpiece firmly in both hands as shown in **Figure 21**.

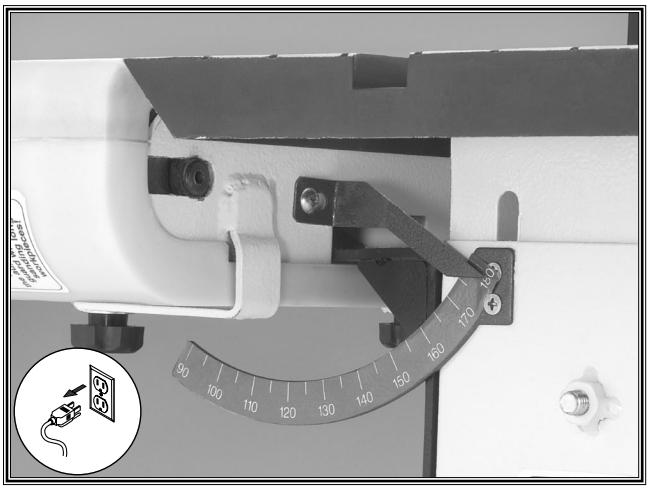


Figure 20. Table at 180˚.

Figure 21. Flat sanding operation.

Bevel Sanding

Bevel sanding operations can be done when the belt is tilted to a specific angle.

To start a bevel sanding operations, do these steps:

1. **UNPLUG THE SANDER!**
2. Loosen the belt tilting lock knob and rotate the sanding belt to the desired angle, then tighten the lock knob.
3. Plug the sander into the power source.
4. Start the sander.
5. Firmly hold the workpiece against the table and feed it into the sander as shown in **FIgure 23**.

Figure 23. Contour sanding operation.

Changing Sanding Belt

The sanding belt will need to be changed if the belt ever becomes worn or damaged.

To change the sanding belt, do these steps:

1. **UNPLUG THE SANDER!**

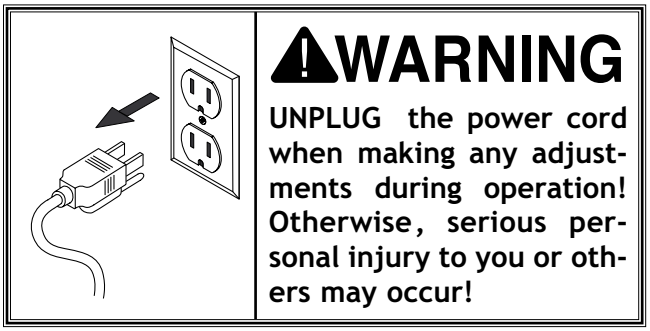
2. Remove the work stop bar and cover lock knobs from the belt guard (**Figure 24** on table).

3. Slide belt guard off the sander as shown in **Figure 24**.

4. Release the belt tension by moving the belt tension lever to the "unlock" position.

5. Remove sanding belt as shown in **Figure 25**.

6. Install a new belt with the arrows in the proper direction (**Figure 25** white arrow), tension it, and replace the belt guard.



⚠WARNING

UNPLUG the power cord when making any adjustments during operation! Otherwise, serious personal injury to you or others may occur!

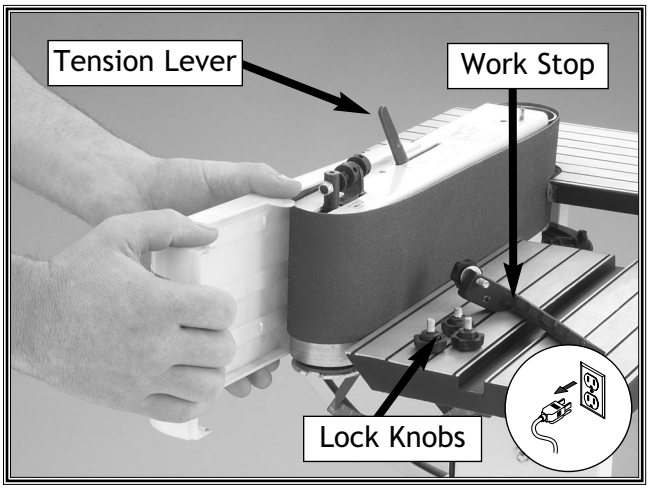


Figure 24. Removing belt guard.

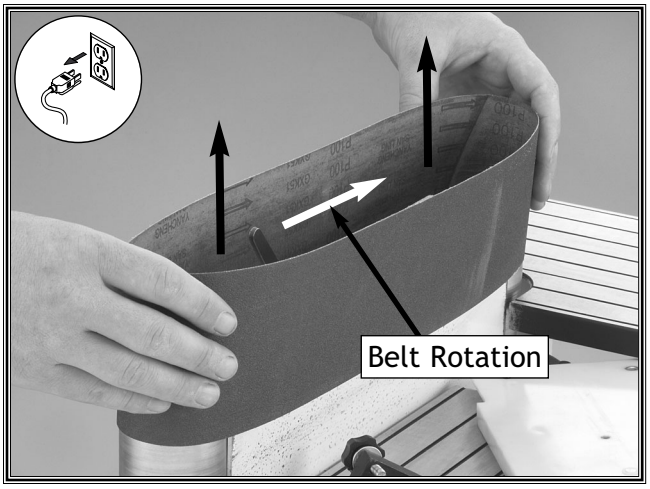


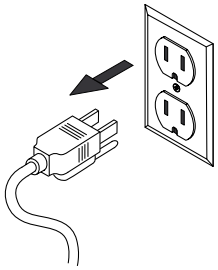
Figure 25. Removing sanding belt.

MAINTENANCE

General

To ensure optimum performance from your sander, make a habit of inspecting it before each use. **Check for the following conditions and repair or replace when necessary:**

- Loose mounting bolts.
- Worn switch.
- Worn or damaged cords and plugs.
- Any other condition that could hamper the safe operation of this machine.



⚠WARNING

MAKE SURE that your machine is unplugged during any maintenance procedures except where instructed otherwise! If this warning is ignored, serious personal injury may occur.

Lubrication

Since all bearings are shielded and permanently lubricated, simply leave them alone until they need to be replaced. DO NOT lubricate them.

Lubricate the unpainted the work tables regularly (**Figure 25**) to prevent rust and ensure a smooth sliding action from the tool post holder and the tailstock. Your goal is to achieve adequate lubrication. However, too much lubrication will attract dirt and sawdust, which may cause these components to lose their freedom of movement.

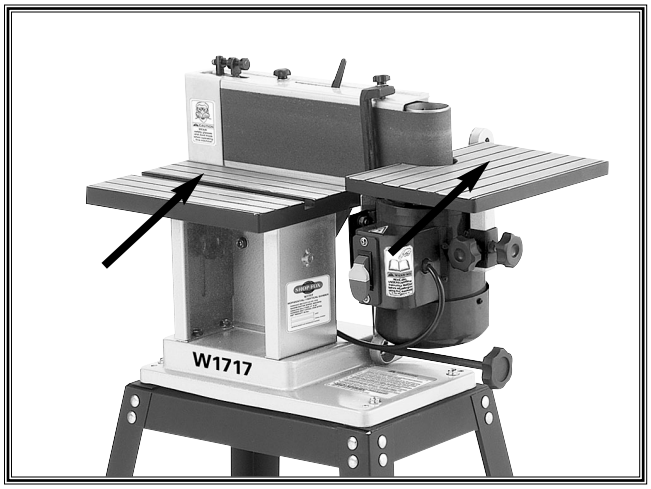


Figure 26. Work tables.

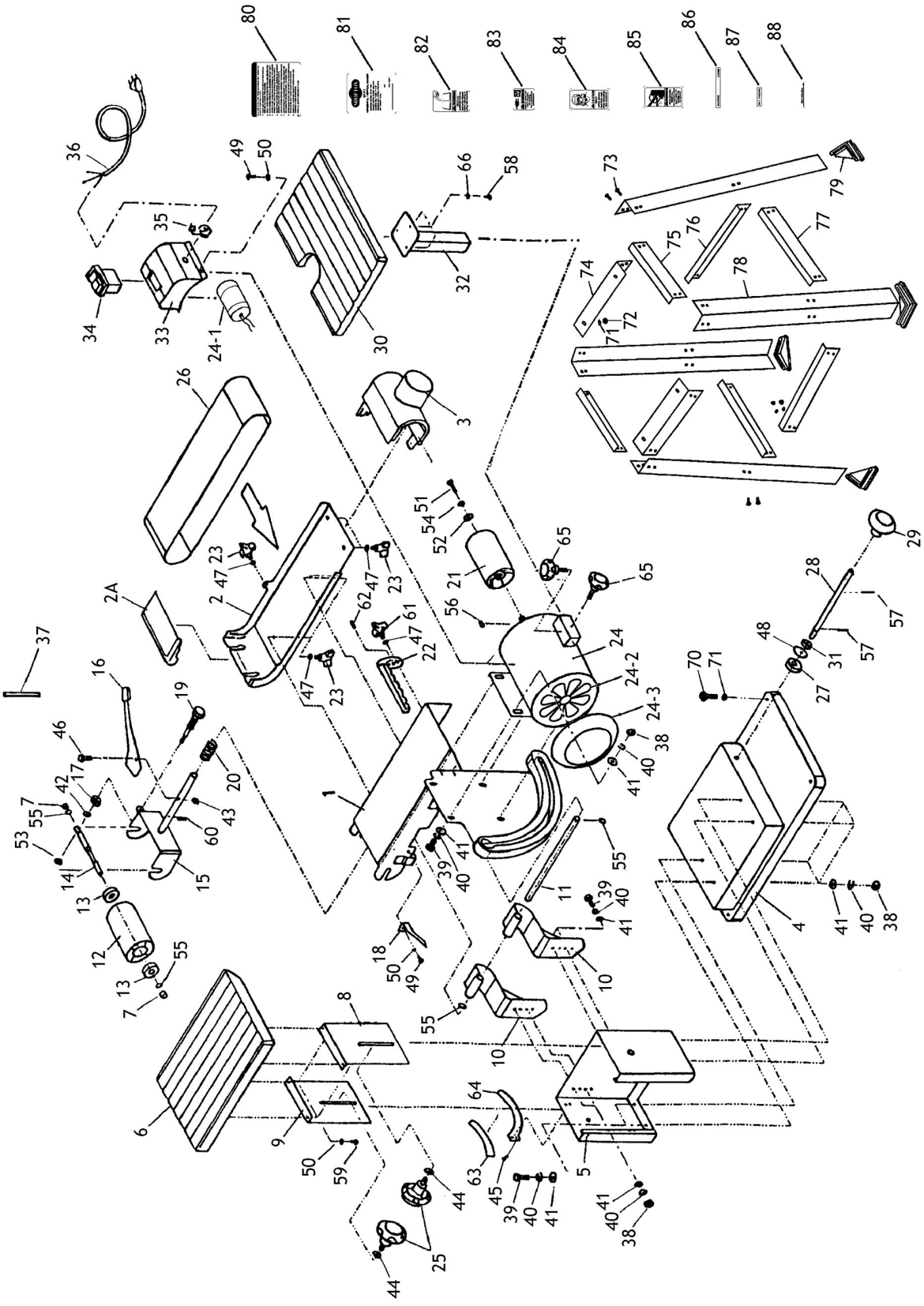
Sanding Belt

Regularly clean your sanding belt as sawdust builds up in the grit. Clean the sanding belt with PRO STICK® belt cleaners as shown in **Figure 26**. Cleaning out built up sawdust will prolong the life of your sanding belt.

Figure 27. Cleaning the sanding belt with PRO STICK®.

NOTES

PARTS



REF	PART #	DESCRIPTION
1	X1717001	SANDING CLOTH PLATFORM
2	X1717002	BELT COVER
2A	X1717002A	BELT COVER (SMALL)
3	X1717003	DUST CHUTE
4	X1717004	BASE
5	X1717005	CABINET
6	X1717006	TABLE
7	X1717007	RUBBER TUBE
8	X1717008	UP-DOWN PLATE (RIGHT)
9	X1717009	UP-DOWN PLATE (LEFT)
10	X1717010	BRACKET
11	X1717011	SHAFT
12	X1717012	DRIVE ROLLER
13	X1717013	TUBE
14	X1717014	ARBOR
15	X1717015	ROLLER ARM
16	X1717016	BELT TENSION ARM
17	XPLN04M	LOCK NUT M8-1.25
18	X1717018	POINTER
19	X1717019	MICRO-ADJUSTING SCR
20	X1717020	SPRING
21	X1717021	MOTOR ROLLER
22	X1717022	BRACKET
23	X1717023	MALE KNOB 6 X 8MM
24	X1717024	MOTOR
24-1	XPC400A	CAPACITOR 400MFD 125VAC
24-2	X171724-2	MOTOR FAN
24-3	X171724-3	MOTOR FAN COVER
25	X1717025	MALE KNOB 8 X 16MM
26	X1717026	SANDING BELT
27	X1717027	SPACER
28	X1717028	ROD
29	X1717029	FEMALE KNOB 12MM
30	X1717030	EXTENSION TABLE
31	X1717031	LOCK WASHER 8MM
32	X1717032	SUPPORTING ROD
33	X1717033	SWITCH BOX
34	X1717034	TOGGLE SWITCH W/KEY
35	X1717035	STRAIN RELIEF 8MM
36	X1717036	POWER CORD 18 GA. 3 WIRE
37	X1717037	BELT TENSION DRIVE
38	XPN03M	HEX NUT M8-1.25
39	XPS532M	PHLP HD SCR M8-1.25 X 25
40	XPLW04M	LOCK WASHER 8MM
41	XPW01M	FLAT WASHER 8MM

REF	PART #	DESCRIPTION
42	XPW03M	FLAT WASHER 6MM
43	XPLN04M	LOCK NUT M8-1.25
44	XPW01M	FLAT WASHER 8MM
45	XPFH27M	FLAT HD SCREW M4-.7 X 5
46	XPS532M	PHLP HD SCR M8-1.25 X 25
47	XPW03M	FLAT WASHER 6MM
48	XPW01M	FLAT WASHER 8MM
49	XPS09M	PHLP HD SCR M5-.8 X 10
50	XPLW04M	LOCK WASHER 8MM
51	XPS26M	PHLP HD SCR M6-1 X 20
52	X1717052	WASHER
53	XPLN03M	LOCK NUT M6-1
54	XPLW08	LOCK WASHER 6MM
55	XPR03M	EXT RETAINING RING 12MM
56	XPK20M	KEY 5 X 5 X 16
57	XPRP42M	ROLL PIN 3 X 20
58	XPS14M	PHLP HD SCR M6-1 X 12
59	XPS09M	PHLP HD SCR M5-.8 X 10
60	X1717060	SHAFT
61	X1717061	STAR KNOB 6 X 25
62	XPRP39M	ROLL PIN 4 X 20
63	X1717063	SCALE LABEL
64	X1717064	SCALE
65	X1717065	MALE KNOB 8 X 16
66	XPW03M	FLAT WASHER 6MM
70	XPS42M	SCREW M8-1.25 X 35
71	XPW01M	FLAT WASHER 8MM
72	XPN03M	HEX NUT M8-1.25
73	XPS76M	SCREW M8-1.25 X 12
74	X1717074	LONG BRACKET
75	X1717075	BRACKET
76	X1717076	LONG SUPPORT PLATE
77	X1717077	SHORT SUPPORT PLATE
78	X1717078	SUPPORT LEG
79	X1717079	RUBBER SUPPORT
80	X1717080	MACHINE WARING LABEL
81	X1717081	MACHINE ID/SPEC LABEL
82	X1717082	READ MANUAL LABEL
83	X1717083	UNPLUG 110V LABEL
84	X1717084	RESPIRATOR/GLASSES LABEL
85	X1717085	PINCH HAZARD LABEL
86	X1717086	LOCKED/UNLOCKED LABEL
87	X1717087	BELT TRACKING LABEL
88	X1717088	ROTATION DIRECTION LABEL

Troubleshooting Sanding

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Deep sanding grooves or scars in workpiece.	1. Sanding belt grit is too coarse for the desired finish. 2. Workpiece is being sanded across the grain. 3. Too much sanding force on workpiece. 4. Workpiece held still against the belt.	1. Use a finer grit sanding belt. 2. Sand with the grain. 3. Reduce pressure on workpiece while sanding. 4. Keep workpiece moving while sanding on the belt.
Grains rub off the belt easily.	1. Sanding belt has been stored in an incorrect environment. 2. Sanding belt has been folded or smashed.	1. Store sanding belt away from extremely dry or hot temperatures. 2. Hang sanding belt or store unfolded and unstacked.
Sanding belt clogs quickly or burns.	1. Using too much pressure against belt. 2. Sanding softwood.	1. Reduce pressure on workpiece while sanding. 2. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing belts frequently.
Burn marks on workpiece.	1. Using too fine of sanding belt grit. 2. Using too much pressure against belt. 3. Work held still for too long.	1. Use a coarser grit sanding belt. 2. Reduce pressure on workpiece while sanding. 3. Do not keep workpiece in one place for too long.
Glazed sanding belt.	1. Sanding wet stock. 2. Sanding stock with high residue.	1. Dry stock properly before sanding. 2. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing belts frequently.
Workpiece frequently gets pulled out of your hand.	1. Not supporting the workpiece against the stop. 2. Starting the workpiece on a leading corner.	1. Use back stop to support workpiece. 2. Start workpiece on a trailing corner.
Motor will not start.	1. Low voltage. 2. Open circuit in motor or loose connections.	1. Check power line for proper voltage. 2. Inspect all lead connections on motor for loose or open connections.
Motor will not start; fuses or circuit breakers blow.	1. Short circuit in line cord or plug. 2. Short circuit in motor or loose connections. 3. Incorrect fuses or circuit breakers in power line.	1. Inspect cord or plug for damaged insulation and shorted wires. 2. Inspect all connections on motor for loose or shorted terminals or worn insulation. 3. Install correct fuses or circuit breakers.
Motor overheats.	1. Motor overloaded. 2. Incorrect usage of machine. 3. Air circulation through the motor restricted.	1. Reduce load on motor. 2. Reduce the applied load on the machine. 3. Clean out motor to provide normal air circulation.
Motor stalls (resulting in blown fuses or tripped circuit).	1. Short circuit in motor or loose connections. 2. Low voltage. 3. Incorrect fuses or circuit breakers in power line. 4. Motor overloaded.	1. Inspect connections on motor for loose or shorted terminals or worn insulation. 2 Correct the low voltage conditions. 3. Install correct fuses or circuit breakers. 4. Reduce load on motor.
Machine slows when operating.	1. Applying too much pressure to workpiece. 2. Undersized circuit or using ext cord.	1. Sand with less pressure—let the movement of the belt do the work. 2. Make sure circuit wires are proper gauge & don't use ext cords!
Machine vibrates excessively.	1. Stand not stable on floor. 2. Incorrect motor mounting. 3. Incorrect sanding belt tension. 4. Weak or broken tension spring. 5. Idler roller is too loose. 6. Broken/defective sanding belt.	1. Secure stand to floor, reposition to level surface, or shim stand. 2. Check/adjust motor mounting. 3. Make sure tension lever is in tensioning position. Follow belt tensioning instructions in this manual. 4. Replace spring. 5. Adjust idler roller. 6. Replace sanding belt.

WARRANTY CARD

Name _____

Street _____

City _____State_____Zip_____

Phone Number_____E-Mail_____FAX_____

MODEL #_____ Serial #_____

The following information is given on a voluntary basis and is strictly confidential.

1. Where did you purchase your **SHOP FOX®** machine?
_____

2. How did you first learn about us?

___Advertisement
___Friend
___Mail order Catalog
___Local Store
___World Wide Web Site

___Other_____

3. Which of the following magazines do you subscribe to.

___American Woodworker
___Today's Homeowner
___Cabinetmaker
___Wood
___Family Handyman
___Wooden Boat
___Fine Homebuilding
___Woodshop News
___Fine Woodworking
___Woodsmith
___Home Handyman
___Woodwork
___Journal of Light Construction
___Woodworker
___Old House Journal
___Woodworker's Journal
___Popular Mechanics
___Workbench
___Popular Science
___American How-To
___Popular Woodworking
___Other_____

4. Which of the following woodworking/remodeling shows do you watch?

___Backyard America
___The New Yankee Workshop
___Home Time
___This Old House
___The American Woodworker
___Woodwright's Shop
___Other_____

5. What is your annual household income?

___$20,000-$29,999
___$60,000-$69,999
___$30,000-$39,999
___$70,000-$79,999
___$40,000-$49,999
___$80,000-$89,999
___$50,000-$59,999
___$90,000 +

6. What is your age group?

___20-29
___50-59
___30-39
___60-69
___40-49
___70 +

7. How long have you been a woodworker?

___0 - 2 Years
___8 - 20 Years
___2 - 8 Years
___20+ Years

8. How would you rank your woodworking skills?

___Simple
___Advanced
___Intermediate
___Master Craftsman

9. How many **SHOP FOX®** machines do you own? _____

10. What stationary woodworking tools do you own? Check all that apply.

___Air Compressor
___Panel Saw
___Band Saw
___Planer
___Drill Press
___Power Feeder
___Drum Sander
___Radial Arm Saw
___Dust Collector
___Sander
___Horizontal Boring Machine
___Spindle Sander
___Jointer
___Table Saw
___Sander
___Vacuum Veneer Press
___Mortiser
___Wide Belt Sander
___Other_____

11. Which benchtop tools do you own? Check all that apply.

___1" x 42" Belt Sander
___6" - 8" Grinder
___5" - 8" Drill Press
___Mini Lathe
___8" Table Saw
___10" - 12" Thickness Planer
___8" - 10" Bandsaw
___Scroll Saw
___Disc/Belt Sander
___Spindle/Belt Sander
___Mini Jointer
___Other_____

12. Which portable/hand held power tools do you own? Check all that apply.

___Belt Sander
___Orbital Sander
___Biscuit Joiner
___Palm Sander
___Circular Saw
___Portable Planer
___Detail Sander
___Saber Saw
___Drill/Driver
___Reciprocating Saw
___Miter Saw
___Router
___Other_____

13. What machines/supplies would you like to see?
_____
_____
_____
_____

14. What new accessories would you like Woodstock International to carry?
_____
_____

15. Do you think your purchase represents good value?

___Yes
___No

16. Would you recommend **SHOP FOX®** products to a friend?

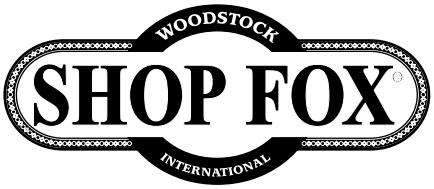
___Yes
___No

17. Comments:_____
_____
_____
_____
_____
_____
_____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE

Place Stamp Here



WOODSTOCK INTERNATIONAL, INC.
P.O. BOX 2309
BELLINGHAM, WA 98227-2309

FOLD ALONG DOTTED LINE

TAPE ALONG EDGES--PLEASE DO NOT STAPLE